

MATERIAL SAFETY DATA SHEET

DATE: 05/11/98

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PRODUCT NUMBER: 433088

PRODUCT NAME: BTC 776

 *
 * STEPAN COMPANY EMERGENCY INFORMATION *
 * NORTHFIELD, IL. 60093 MEDICAL: 1-800-228-5635 *
 * (847) 446-7500 CHEMTREC: 1-800-424-9300 *
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 * SECTION I: GENERAL INFORMATION *

PRODUCT NUMBER: 433088 PRODUCT NAME: BTC 776 / AQUA EZ ALGAEICIDE 50
 PRODUCT CLASS: QUATERNARY
 PRECAUTIONS: CORROSIVE.
 REFER TO BILL OF LADING OR CONTAINER LABEL FOR DOT OR OTHER
 TRANSPORTATION HAZARD CLASSIFICATION, IF ANY.

 * SECTION II: HAZARDOUS INGREDIENTS *

INGREDIENT (CAS #)	OSHA PEL (PPM)	ACGIH TLV (PPM)	OTHER
N-ALKYL(C12-18)-N,N-DIMETHYL-N-BENZYLAMMONIUM CHLORIDE (68391-01-5)	NL	NL	
49.8%			
N,N-DIALKYL(C12-18)-N-METHYL-N-BENZYL-AMMONIUM CHLORIDE (73049-75-9)	NL	NL	
0.2%			
ETHYL ALCOHOL, DENATURED (64-17-5)	1000	1000	
10%			

NE = NOT ESTABLISHED.

NL = NOT LISTED.

(C) = IDENTIFIED AS A CARCINOGEN BY OSHA, IARC, OR NTP.

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SECTION III: PHYSICAL/CHEMICAL DATA

BOILING POINT:

212 DEG F. (100 DEG C.).

% VOLATILE BY WEIGHT:

50%

EVAPORATION RATE: ESTIMATED SLOWER THAN ETHYL ETHER.

VAPOR DENSITY: ESTIMATED HEAVIER THAN AIR.

VAPOR PRESSURE (MM HG):

NOT DETERMINED OR UNKNOWN.

WEIGHT PER GALLON:

8.0 LBS.

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT (PENSKEY-MARTENS CLOSED CUP):

102 DEG F (39 DEG C.).

EXPLOSIVE LIMITS:

LOWER:

2%

UPPER:

12%

EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, FOAM, OR
WATER FOG. CLASS BC, ABC FIRE EXTINGUISHER.

SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED POSITIVE PRESSURE
BREATHING APPARATUS AND PROTECTIVE
CLOTHING SHOULD BE WORN IN FIGHT-
ING FIRES INVOLVING CHEMICALS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN.

SECTION V: REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

INCOMPATABILITY (MATERIALS TO AVOID):

STRONG OXIDIZING AGENTS

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HAZARDOUS DECOMPOSITION PRODUCTS:
NITROUS OXIDES AND AMMONIACAL VAPORS.

* SECTION VI: HEALTH HAZARD DATA *

EFFECTS OF OVEREXPOSURE/EMERGENCY AND FIRST AID PROCEDURES

EYES: CONTACT WITH EYES IS PAINFUL AND IRRITATING AND WILL CAUSE
CHEMICAL BURNS. FLUSH EYES IMMEDIATELY WITH PLENTY OF WATER.
SKIN: PROLONGED OR REPEATED CONTACT WITH SKIN CAUSES IRRITATION.
WASH OFF SKIN WITH WATER. REMOVE CONTAMINATED CLOTHING AND
CLEAN BEFORE REUSE.
INHALATION: MIST CAUSED BY MANUFACTURING OPERATIONS IRRITATES
NASAL PASSAGES. ALCOHOL PORTION, WHICH CAN BE INHALED OR
ABSORBED, MUST BE CONTROLLED BELOW TLV. PROLONGED
INHALATION OF VAPORS CAUSES NAUSEA, LOSS OF MOTOR SKILLS,
AND DISORIENTATION.
IF VAPORS OR MIST CAUSE IRRITATION OR DISTRESS, GO
TO FRESH AIR, GIVE OXYGEN OR APPLY ARTIFICIAL
RESPIRATION, IF NEEDED.
INGESTION: IF SWALLOWED, CONSULT A PHYSICIAN IMMEDIATELY.

CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:
CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVER-
EXPOSURE TO THIS PRODUCT HAVE NOT BEEN ESTABLISHED.
UNNECESSARY EXPOSURE TO THIS PRODUCT OR ANY CHEMICAL SHOULD
BE AVOIDED.

IF ANY SYMPTOMS PERSIST, CONSULT A PHYSICIAN.

CARCINOGEN: THIS PRODUCT IS NOT CONSIDERED A CARCINOGEN BY OSHA, NTP,
OR IARC.

THRESHOLD LIMIT VALUE:

SEE SECTION II FOR HAZARDOUS INGREDIENTS PRESENT IN THIS PRODUCT
AND THEIR CORRESPONDING THRESHOLD LIMIT VALUES.

FOR ADDITIONAL MEDICAL INFORMATION, CALL 1-800-228-5635

SECTION VII: SPILL, LEAK, AND DISPOSAL PROCEDURES *
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CONTAIN ALL SPILLS AND LEAKS TO PREVENT DISCHARGE INTO THE ENVIRONMENT.

PREVENT ELECTRICAL SPARKING.

VENTILATE AREA.

SMALL SPILLS: SOAK UP WITH ABSORBANT, SHOVEL INTO WASTE CONTAINER, FLUSH AREA WITH WATER.

LARGE SPILLS: RECOVER LIQUID FOR REPROCESSING OR DISPOSAL.

WASTE DISPOSAL: RECOVER MATERIAL OR DISPOSE (INCINERATION IS PREFERRED) IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. MATERIAL COLLECTED WITH ABSORBANT MAY BE DISPOSED IN A PERMITTED LANDFILL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. EMPTY CONTAINER MAY RETAIN VAPOR OR PRODUCT RESIDUE. OBSERVE ALL LABELED SAFEGUARDS UNTIL CONTAINER IS CLEANED, RECONDITIONED, OR DESTROYED.

* SECTION VIII: PROTECTIVE MEASURES *

EYE PROTECTION: WEAR FULL FACE SHIELD OR GOGGLES WHEN HANDLING.

PROTECTIVE GLOVES: USE IMPERVIOUS GLOVES.

RESPIRATORY PROTECTION:

IF VAPORS ARE PRESENT, USE NIOSH OR MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS, AIR-LINE RESPIRATOR, OR A SELF-CONTAINED BREATHING APPARATUS.

VENTILATION:

USE VENTILATION ADEQUATE TO KEEP HAZARDOUS INGREDIENTS BELOW THEIR TLV (SEE SECTION II).

OTHER PROTECTIVE EQUIPMENT:

WEAR PROTECTIVE CLOTHING TO PREVENT REPEATED OR PROLONGED CONTACT.

EYE WASH STATION AND SAFETY SHOWER SHOULD BE NEAR WORK AREA.

* SECTION IX: SPECIAL PRECAUTIONS *

HANDLING AND STORAGE:

AVOID OPEN FIRE OR FLAME.

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OTHER PRECAUTIONS:

SPILLED MATERIAL IS SLIPPERY. WASH THOROUGHLY AFTER HANDLING. IF
INGESTED, CALL A PHYSICIAN.

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